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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,683	11/25/2003	Kwang Soo Kim	9988.089.00-US	3060
9498-0008 MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW			EXAMINER	
			MARKOFF, ALEXANDER	
WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
			1792	
			MAIL DATE	DELIVERY MODE
			04/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/720.683 KIM ET AL. Office Action Summary Examiner Art Unit Alexander Markoff 1792 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 27 February 2002 and 08 January 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

3) Information Disclosure Statement(s) (PTC/G5/08)
Paper No(s)/Mail Date ______

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/08/08 has been entered.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.
- Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Minayoshi et al (US 200100115082 and JP 2001-178985) in view of any one of AAPA
 and Durazzani et al (US Patent NO 4,903,508).

Minayoshi et al teach a method comprising conducting washing and rinsing cycles according to an operational program and thereafter conducting drying. The documents teach operation of pumps fans, heaters, motors, and valves during drying. The documents teach circulating air during dewatering.

See entire document, especially Description of the Preferred Embodiment in Minayoshi et al.

Minayoshi do not specifically teach supplying water to conduit during drying.

However, AAPA and Durazzani et al all teach that it was conventional in the art to spray water into the conduit to condense water from the circulating air.

It would have been obvious to an ordinary artisan at the time the invention was made to supply water into conduit of Minayoshi during drying with reasonable expectation of success in order to increase efficiency of the drying by condensing water from the circulating air.

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Response to Arguments

The applicants filed certified translation of the foreign priority documents and provided proper statements to disqualify Hong and Woo documents.

Thereby, Hong and Woo documents are removed from the rejection.

6. Applicant's arguments filed 1/8/08 have been fully considered but they are not persuasive. The arguments are not persuasive because Hong and Woo were not the only documents applied to show that it was conventional in the art to spray water into the conduit to condense water from the circulating air.

7. Applicant's arguments filed 11/08/07 with respect to the rejection made over the combination of Minayoshi et al in view of any one of AAPA and Durazzani et al have been fully considered but they are not persuasive. It is noted that the referenced arguments were previously considered and not found persuasive as indicated in the advisory action mailed 11/29/07.

It is also noted that the applicants have not argued the referenced rejection again.

The rejection is maintained.

The examiner would like to address the referenced arguments.

The applicants allege that the combination of Minayoshi et al with AAPA or Durazzani et al would require to change the principal of operation of the prior art.

The examiner disagrees. MInayoshi et al teach circulation of the air through conduit 12. The secondary documents teach that it was conventional in the art to spray water into the conduit to condense water from the circulating air.

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It would have been obvious to an ordinary artisan at the time the invention was made to supply water into conduit of Minayoshi during drying with reasonable expectation of success in order to increase efficiency of the drying by condensing water from the circulating air.

Such modification would not require changing of the principal of the operation of the apparatus of Minayoshi et al, but would increase the efficiency of drying.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Markoff whose telephone number is 571-272-1304. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on 571-272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alexander Markoff Primary Examiner Art Unit 1792

/Alexander Markoff/ Primary Examiner, Art Unit 1792